

Patent
Case No.: 54477US024

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: PEREZ, MARIO A.
Application No.: 10/618961 Group Art Unit: 1732
Filed: July 14, 2003 Examiner: Unknown
Title: COMPOSITE ARTICLES REINFORCED WITH HIGHLY
ORIENTED MICROFIBERS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

<u>CERTIFICATE OF MAILING</u>	
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FEB 18 2004	<i>Hylis H. Froelke</i>
Date	Signed by: Hylis H. Froelke

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 11, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

If a first Office Action on the merits has been mailed prior to the mailing date of this document, please charge the fee for consideration of an Information Disclosure Statement set forth in 37 CFR § 1.17(p), and if necessary, please charge any additional fees, or credit any overpayment to Deposit Account No. 13-3723.

Respectfully submitted,

Date

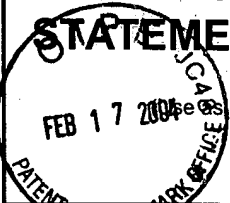
Feb 13, 2004

By: 

Kent S. Kokko, Reg. No.: 33,931

Telephone No.: (651) 733-3597

Office of Intellectual Property Counsel
3M Innovative Properties Company
Facsimile No.: 651-736-3833

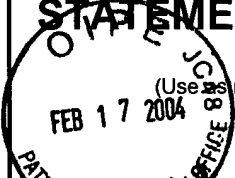
Substitute for form 1449A/PTO (modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT 	Application Number	10/618961
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U.S. Patent Documents					
Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A1	US- Re: 30,782	10/27/1981	van Turnhout	
	A2	US- Re: 31,285	06/21/1983	van Turnhout et al.	
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		Ctry. Code	Number-KindCode (If known)				
	B1	GB	1,073,741	06/28/1967			

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/	B22	PCT	WO 00/00520	01/06/2000			
/	B23	PCT	WO 00/68301	11/16/2000			

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
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/	C1	Bigg, "Mechanical Property Enhancement of Semicrystalline Polymers", <u>Polymer Engineering and Science</u> , vol. 28, No. 13, pp. 830-841, July 1988.
/	C2	Davies, "The Separation of Airborne Dust and Particles", <u>Institution of Mechanical Engineers</u> , London, Proceedings 1B, 1952.

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First Name and Inventor

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Art Unit

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Examiner Name

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C3	Doyle, "Strong Fabrics for Fast Sails", <u>Scientific American</u> , pp. 60-67, July 1997.
/	C4	Jones et al., "Crystalline Forms of Isotactic Polypropylene", <u>Makromol. Chem.</u> , vol 75, 134-158, 1964.
	C5	J. Karger-Kocsis, "Polypropylene: Structure, Blends and Composites, vol. 1, 130-131, 1994.
	C6	Kolpak et al., "Deformation of Cotton and Bacterial Cellulose Microfibrils", <u>Textile Research Journal</u> , pp. 568-572, July 1975.
	C7	Piccarolo et al., "Crystallization of Polymer Melts Under Fast Cooling", <u>Journal of Applied Polymer Science</u> , vol. 46, 625-634, 1992.
	C8	Roger S. Porter et al., <u>Journal of Macromolecular Science-Rev. Macromol. Chem. Phys.</u> , C35(a), 63-115, 1995.
	C9	J. I. Raukola, "A New Technology to Manufacture Polypropylene Foam Sheet and Biaxially Oriented Foam Film", VTT Publications 361, Technical Research Center of Finland (1998).
	C10	"Survey of Polymer Morphology", pp. 149-177
	C11	Zigmond W. Wilchinsky, "Measurement of Orientation in Polypropylene Film", <u>Journal of Applied Physics</u> , vol. 31, No. 11, pp. 1969-1972, November 1960
	C12	Encyclopedia of Chemical Technology, "Thin Films (Film Formation Techniques)" vol. 23, (4 th ed.), 1997 pp. 1040-1076
	C13	J. D. Affinito et al., "Polymer/Polymer, Polymer/Oxide, and Polymer/Metal Vacuum Deposited Interference Filters", <u>Proc. of the 10 International Conf. on Vacuum Coating</u> pp. 207-220, 1996

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